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UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 2102397-992670

First Inventor Bomy Chen

Title Memory Device With Discrete Layers Of Phase Change Memory Material, And A Method Of Operating Same

| 1 | | | lviem | ory Material, | And A Metho | d Of Operating Sam | ie (1 |
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| (Only for new nonprovis | sional applications under 37 | CFR 1.53(b)) | Express Mail | Label No. | EV 301143 | 556 US | |
| | LICATION ELEMENT O concerning utility patent a | _ | | DRESS TO: | P.O. Box | Commissioner for F 1450, Alexandria, V Patent Application | Patents /A 22313 |
| 2. Submit an original Applicant clair See 37 CFR 1 3. Specification (preferred arrangent of the company of the | [Total Pag gement set forth below) e of the invention se to Related Applications parding Fed sponsored R&D equence listing, a table program listing appendix on of the Drawings(if filed) ription | | 7 | Cleotide and/ pplicable, al Compu Specificat i. Cl ii. pa Stateme ACCOMI | or Amino Acid In necessary) Iter Readable Ion Sequence D-ROM or CD- Iper Ients verifying ic PANYING APP Inent Papers (co | Form (CRF) Listing on: -R (2 copies; or dentity of above cop PLICATION PARTS over sheet & docum | oies enent(s)) |
| 5. Oath or Declaration and a. New Copp b. Gord i. Application Data 17. If a CONTINUING APPL Application Data Sheet Continuation Director application information: For CONTINUATION OR DIV Box 5b, is considered a part of | visional Continuation-in Examiner /ISIONAL APPS only: The er of the disclosure of the account | GNED [Total - 0 TOFR 1.63(d)) Box 17 completed NTOR(S) deleting inventor(on, see 37 CFR box, and supply the part (CIP) of | 13 | (when the content of the content o | on Disclosure and (IDS)/PTO-14 ary Amendment eccipt Postcarc be specifically it Copy of Priority in priority is claim and Certificatio i). Applicant mi ivalent. Certificate of Check No. 7 and in a preliment | Attument (if applicable) 449 Co Cit (MPEP 503) temized) (Document(s) ned) n under 35 U.S.C. 12 ust attach form PTO/S (\$1,110.0) ninary amendment, of | SB/35 00) |
| incorporation can only be relie | ed upon when a portion has b | 18 CORRESPO | omitted from the | submitted a | plication parts. | | |
| Customer Number or Bar C | Code Label 26379 | Ilanah Oudomer No | or Attack barranda | Inhalham) | or Corre | espondence address be | elow |
| Name | Alan A. Limbach | 7 | | | | | |
| Address | Gray Cary Ware & Fre 2000 University Avenu | | | | | | |
| City | East Palo Alto | State | CA | | Zin Code | 94303 | |
| Country | US | Telephone | 650/833-243 | 33 | Zip Code Fax | 650/833-2001 | |
| NAME (Print/Type) Signature | Alan A. Limbach | Regis | stration No. (At | torney/Agen Date | | 39,749 September 4, 2 | 003 |
| | un 01. 0 | me in | _ | | | • | J |

Approved for use through 04/30/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| FEE | TRANSMIT | TAL |
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Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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(\$) 1,110.00

| Coi | Complete if Known | | | | |
|----------------------|-------------------|--|--|--|--|
| Application Number | Not yet assigned | | | | |
| Filing Date | September 4, 2003 | | | | |
| First Named Inventor | Bomy Chen | | | | |
| Examiner Name | Not yet assigned | | | | |
| Art Unit | Not yet assigned | | | | |
| Attorney Docket No. | 2102397-992670 | | | | |

| METHOD OF PAYMENT (check all that apply) | | FEE CALCULATION (continued) | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------|-------------|-------------|----------------------------------------------------------------------------|----------|--|
| ☐ Check ☐ Credit ☐ Money ☐ Other ☐ None | 3. ADDITIONAL FEES | | | | | | |
| Deposit Order | | Entity | | Entity | | | |
| Account 07-1896 | Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid | |
| Number Deposit | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | | |
| Account Gray Cary Ware & Freidenrich LLP | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | | |
| The Commissioner is authorized to: (check all that apply) | 1053 | 130 | 1053 | 130 | Non-English specification | | |
| ☐ Charge (fees) indicated below. ☐ Credit any overpayments | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | | |
| Charge any additional fee(s) during the pendency of this application | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | | |
| ☐ Charge fee(s) indicated below, except for filing fee | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | | |
| to the above-identified deposit account. | 1251 | 110 | 2251 | 55 | Extension for reply within first month | | |
| FEE CALCULATION | 1252 | 410 | 2252 | 205 | Extension for reply within second month | | |
| 1. BASIC FILING FEE | 1253 | 930 | 2253 | 465 | Extension for reply within third month | | |
| Large Entity Small Entity Fee Fee Fee Fee Description | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | | |
| Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$) Fee Paid | 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | | |
| 1001 750 2001 375 Utility filing fee 750.00 | 1401 | 320 | 2401 | 160 | Notice of Appeal | | |
| 1002 330 2002 165 Design filing fee | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | | |
| 1003 520 2003 260 Plant filing fee 1004 750 2004 375 Reissue filing fee | 1403 | 280 | 2403 | 140 | Request for oral hearing | | |
| 1005 160 2005 80 Provisional filing fee | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | | |
| SUBTOTAL (1) (\$) 750.00 | 1452 | 110 | 2452 | 55 | Petition to revive – unavoidable | | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | 1453 | 1,300 | 2453 | 650 | Petition to revive unintentional | | |
| Fee from | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | | |
| Extra Claims below Fee Paid Total Claims 40 -20** = 20 X 18 = 360.00 | 1502 | 470 | 2502 | 235 | Design issue fee | | |
| Independent 3 -3** = 0 X 84 = 0 | 1503 | 630 | 2503 | 315 | Plant issue fee | | |
| Claims | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | | |
| Multiple Dependent X = | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) | | |
| Large Entity Small Entity | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | | |
| Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$) | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | | |
| 1202 18 2202 9 Claims in excess of 20 20 | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR § 1.129(a)) | | |
| 1201 84 2201 42 Independent claims in excess of 3 U 1203 280 2203 140 Multiple dependent claim, if not paid | 1810 | 750 | 2810 | 375 | For each additional invention to be | | |
| 1204 84 2204 42 ** Reissue independent daims | | | | | examined (37 CFR § 1.129(b)) | | |
| over original patent | 1801 1802 | 750 900 | 2801 | 375 | Request for Continued Examination (RCE) Request for expedited examination | | |
| 1205 18 2205 9 ** Reissue daims in excess of 20 and over original patent | 1802 | 900 | 1802 | 900 | of a design application | | |
| , | | Other fee | (specify) | | | | |
| SUBTOTAL (2) (\$) 360.00 | | | | | | | |
| **or number previously paid, if greater; For Reissues, see above | * Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) | | | | | | |

| SUBMITTED BY Complete(if applicable) | | | | | | |
|---------------------------------------|-----------------|--------------------------------------|--------|---------------|--------------|--|
| Name (Print/Type) | ALAN A. LIMBACH | Registration No. (Attorney/Agent) | 39,749 | Telephone | 650-833-2433 | |
| Signature All G. Smil | | | Date | Sept. 4, 2003 | | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

| CERTIFICATE (| OF MAILING BY "EX | XPRESS MAIL" (3 | 7 CFR 1.10) | Docket No. 2102397-992670 |
|-----------------------|------------------------------------|-------------------------------------------------|-----------------------------|------------------------------------------------|
| Applicant: Bomy C | | | | |
| Serial No. | Filing Date | Examiner | Grou | ıp Art Unit |
| Not Yet Assigned | September 4, 2003 | Not Yet Assigned | | N/A |
| Invention: | | | | |
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| MATERIAL, AND | A METHOD OF OP | ERATING SAME | <u></u> | |
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